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CHAPTER 1: INTRODUCTION

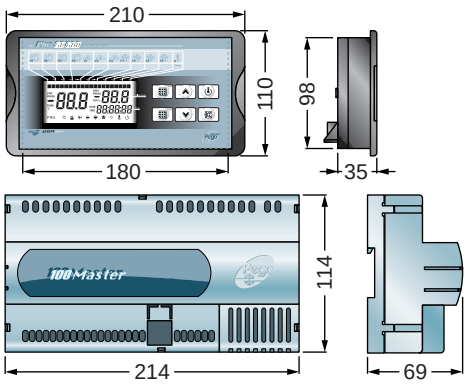
1.1 GENERAL FEATURES

The SC600 PLUS system allows users to control the machine room of a refrigeration plant in which there is more than one compressor. It guarantees uniform operation and proper distribution of operating times among individual machines. All functions are performed in complete safety and the SC600 PLUS Control Console (LCD DISPLAY) can be installed anywhere, independently of where the power cabinet is located.

1.2 PRODUCT IDENTIFICATION CODE

SC 600 PLUS ..... Control system for refrigeration units.

1.3 DIMENSIONS



1.4 IDENTIFICATION DATA

The unit described in this manual has an ID plate on its side showing the relevant ID data:

- Name and address of Manufacturer
- Code and model of the electrical board
- Serial n°
- IP protection rating and date
- Power supply

CHAPTER 2: INSTALLATION

IMPORTANT GENERAL INFORMATION FOR THE USER 2.1

1. Install the device in places where the protection rating is observed and try not to damage the box when drilling holes for wire/pipe seats.

2. Do not use multi-polar cables in which there are wires connected to inductive/power loads or signalling wires (e.g. probes and digital inputs).

3. Do not fit power supply wiring and signal wiring (probes and digital inputs) in the same raceways or ducts.

4. Minimise the length of connector wires so that the wiring does not have a spiral shape.

5. Place a general protection fuse upstream from the electronic controller.

6. All wiring must be of a cross-section suitable for relevant power levels.

7. When it is necessary to extend the probes, the wires must have a cross-section of at least 1 mm2.

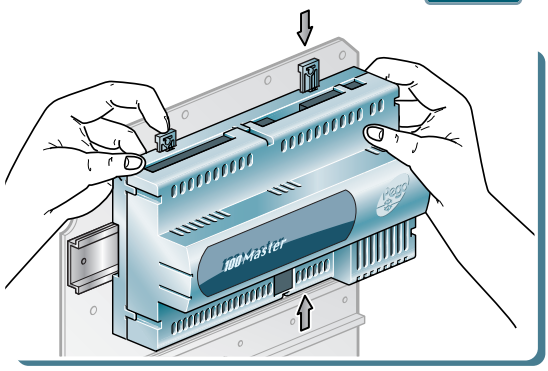
ASSEMBLY KIT 2.2

The ***PLUS SC 600*** electronic controller features, for assembly and use, the following:

- N° 1 fixing bracket;
- N° 1 phone cable;
- N° 1 user manual.

INSTALLING THE MASTER CONTROL BOARD 2.3

Fig. 1 : Position the MASTER board in the din guide and insert the four plugs to fix the box to the panel.



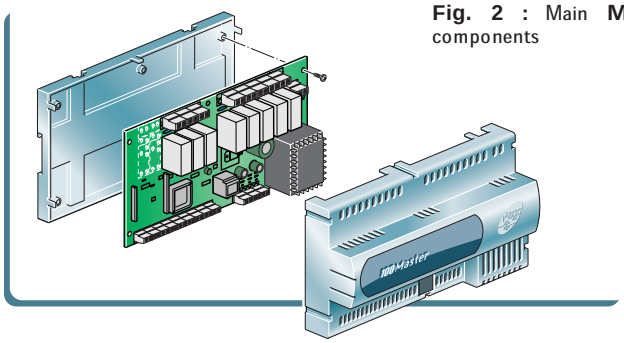


Fig. 2 : Main **MASTER** control board components

2.4 INSTALLING THE PLUS SC 600 CONSOLE

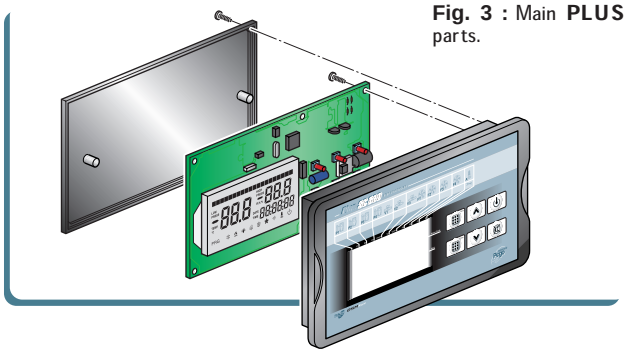


Fig. 3 : Main **PLUS SC 600** control console parts.

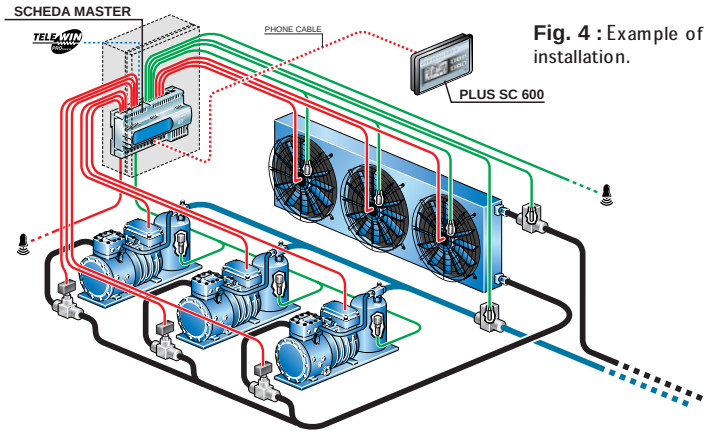


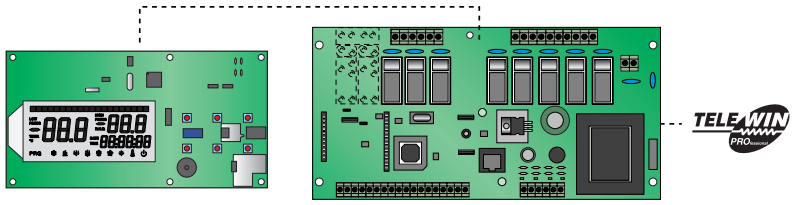
Fig. 4 : Example of **PLUS SC 600** installation.

Effect all electrical connections as illustrated in the diagram for the corresponding model (see relative table in APPENDICES).
To effect correct electrical connection and maintain the protection rating, use lead grippers and/or duct grippers to ensure a good seal.
Route the wiring inside the unit in as tidy a fashion as possible: be especially careful to keep power wires away from signal wires. Use clips to hold wires in place.

Be careful not to over-tighten the closure screws as this could warp the box and compromise proper operation of the membrane-type keypad..

Before doing any maintenance work disconnect the power supply from the board; this ensures that the operator is able to work safely.

Fig. 5: Components layout.



CHAPTER 3: FUNCTIONALITY

FUNCTIONS CONTROLLED BY THE PLUS SC 600 3.1

The **SC600PLUS** system consists of two distinct parts, the Control Console (LCD DISPLAY) and the MASTER control board: these two parts are interconnected by a standard telephone lead.
The Control Board, installed inside an electrical cabinet, enables switching on and switching off of the compressors.
The Control Console allows the user to set up and control the system as desired.
It can be installed several tens of metres from the Master control board and used as a remote control unit with the aid of a simple telephone lead.
The **PLUS SC 600 STEP CONTROLLER** system features the following functions:
- Display and adjustment of parameters (high/low pressure SET)
- Stand-by activation/deactivation
- System alarms signals/display
- Adjustment of compressor and fan status
- Clock function.

CHAPTER 4: TECHNICAL CHARACTERISTICS

4.1 TECHNICAL CHARACTERISTICS

POWER SUPPLY		
Voltage	230 V~ ± 10% 50Hz	
Max power	~ 8 VA	
AMBIENT CONDITIONS		
Operating temperature	-10 ÷ 60°C	
Storage temperature	-30 ÷ 70°C	
Relative ambient humidity	Below 90%	
GENERAL CHARACTERISTICS		
Pressure sensor type	4...20 mA	
Measuring range	-0,5...30 bar	
OUTPUT CHARACTERISTICS		
Outputs on relay	n° 10 Outputs on relay N.A. 16 A (AC1) 230 V AC	
DIMENSIONAL CHARACTERISTICS		
Dimensions Console Slim 100 (mm)		42 x 25 x 165 (HxPxL)
INSULATION AND MECHANICAL CHARACTERISTICS		
Console protection rating		IP55
Console box material		self-extinguishing ABS

4.2 WARRANTY CONDITIONS

PLUS SC 600 and 100 MASTER THR electronic controllers are covered by a 12-month warranty against all manufacturing defects. If the system is used improperly the warranty will automatically be rendered null and void. It is strongly recommended that you observe all instructions/ information regarding the technical characteristics of the device.

WARNING !

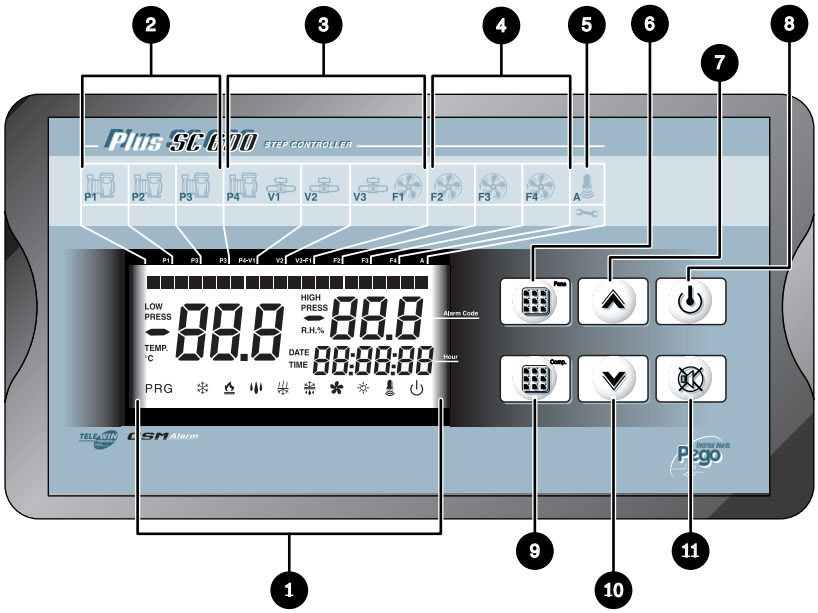
Any modifications made to wiring and/or internal components or any tasks carried out in a way that fails to comply with the information/instructions in this manual shall render the warranty null and void immediately. Such modifications/tasks can also cause serious injury or damage.

PEGO S.r.l. declines any responsibility for possible errors or inaccuracies written in this manual as a result of printing or transcription errors.
PEGO S.r.l. reserves the right to modify its products as it deems necessary without altering its main characteristics. Each new release of a ***PEGO*** user manual replaces previous ones.

CHAPTER 5: PARAMETER PROGRAMMING

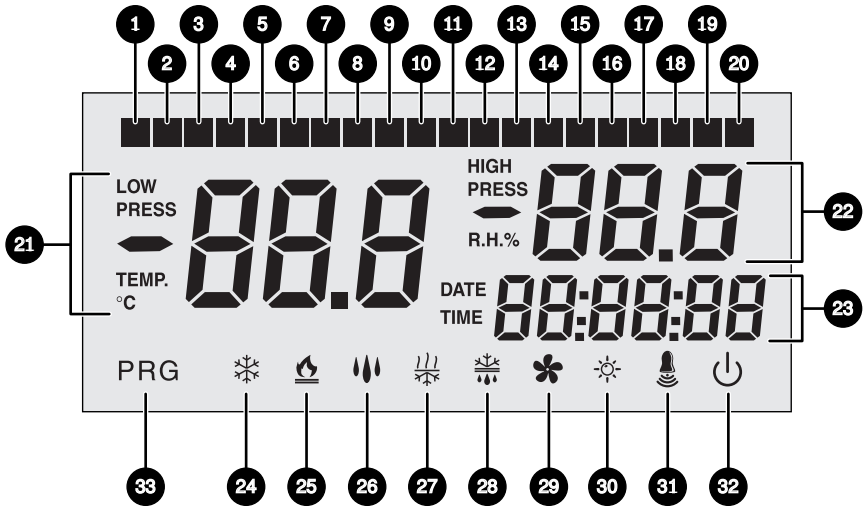
PLUS SC 600 CONTROL PANEL 5.1

The Control Console is used to program and display the parameters.
The Console can be installed directly in the machine room (e.g. power cabinet front) or in any other position where visual control of plant operation might be useful. The Control Console features CONTROL KEYS, INFO/WARNING ICONS and a DISPLAY which is used to program and view all the main parameters.



1. LCD display
2. Compressors phase
3. Separation phase
4. Ventilation phase
5. Alarm/maintenance
6. Fans SET
7. UP (increases value)
8. Stand-by (stops system)
9. Compressors SET
10. DOWN (decreases value)
11. Alarm mute

5.2 LCD DISPLAY



1. status of digital output 1 (compress. 1) on = active, off = not active

2. status of digital output 1 (compress. 1) flashing = output waiting for ON or OFF, fixed = alarm

3. status of digital output 2 (compress. 2) on = active, off = not active

4. status of digital output 2 (compress. 2) flashing = output waiting for ON or OFF, fixed = alarm

5. status of digital output 3 (compress. 3) on = active, off = not active

6. status of digital output 3 (compress. 3) flashing = output waiting for ON or OFF, fixed = alarm

7. status of digital output 4 (compress. 4 or separation compress. 1) on = active, off = not active

8. status of digital output 4 (compress. 4 or separation compress. 1) flashing = output waiting for ON or OFF, fixed = alarm

9. status of digital output 5 (separation compress. 2) on = active, off = not active

10. status of digital output 5 (separation compress. 2) flashing = output waiting for ON or OFF

11. status of digital output 6 (separation compress. 3 or fan Cond. 1) on = active, off = not active

12. status of digital output 6 (separation compress. 3 or fan Cond. 1) flashing = output waiting for ON or OFF

13. status of digital output 7 (fan cond. 1 or 2) on = active, off = not active

14. status of digital output 7 (fan cond. 1 or 2) flashing = output waiting for ON or OFF

15. status of digital output 8 (fan cond. 2 or 3) on = active, off = not active

16. status of digital output 8 (fan cond. 2 or 3) flashing = output waiting for ON or OFF

17. status of digital output 9 (fan cond. 3 or 4) on = active, off = not active

18. status of digital output 9 (fan cond. 3 or 4) flashing = output waiting for ON or OFF

19. system maintenance flashing = maintenance required.

20. state (alarm) on = tripped alarm not muted but stopped on its own
21. displays pressure read by the intake sensor (low pressure)
22. displays pressure read by the delivery sensor (high pressure)
23. shows date and time
24. indicates compressor call (general)
25. [SPARE]
26. [SPARE]
27. [SPARE]
28. [SPARE]
29. indicates fan call (general)
30. [SPARE]
31. indicates alarm (general)
32. indicates system stand-by
33. Programming (the control unit is being programmed)

LOW PRESS. Intake sensor reading (low pressure) in Bar.

TEMP. °C Intake sensor reading (low pressure) in °C

HIGH PRESS. On = delivery sensor reading (high pressure) in Bar.

HIGH PRESS. Off = delivery sensor reading (high pressure) in °C.

MASTER CONTROL BOARD 5.3

The SC 600 PLUS system Master control board installed inside the power cabinet is powered at 230 V AC 50/60Hz and can easily be connected to the system thanks to the printed circuit terminals (see appendix A2).

ANALOGUE INPUTS:
- Low pressure sensor (4... 20mA)
- High pressure sensor (4... 20mA)

DIGITAL INPUTS:

1. "General" compressor 1 protection	deactivates the relative output
2. "General" compressor 2 protection	deactivates the relative output
3. "General" compressor 3 protection	deactivates the relative output
4. "General" compressor 4 protection	deactivates the relative output
5. Condenser 1-2-3-4 fans protection	does not deactivate any output
6. Unit trip pressure switch in manual	deactivates all outputs (see parameter)
7. General high pressure switch	deactivates compressor outputs
8. General low pressure switch	deactivates all compressor and fan outputs
9. Freon level; oil level	deactivates all outputs after delay (see parameter)

OUTPUTS: (normally open non-powered contacts)
- Compressor 1
- Compressor 2
- Compressor 3
- Compressor 4 or separation compressor 1
- Separation compressor 2
- Separation compressor 3 or fan 1
- Condenser fan 1 or 2
- Condenser fan 2 or 3
- Condenser fan 3 or 4
- Alarm

5.4 GENERAL FEATURES

For safety reasons and to simplify the operator's work, the **PLUS SC 600** has two programming levels; the first level is used to modify SET parameters (i.e. those parameters that are changed frequently). The second level is for general parameter programming of the various board work modes.
It is not possible to access the first programming level directly from the second level: you must exit the programming mode first.

5.5 KEY TO SIMBOLS

For practical purposes the following symbols are used:

- (▲) indicates the UP key used to increase values and mute the alarm.
- (▼) indicates the DOWN key used to decrease values and force defrosting.

5.6 SC 600 PLUS SYSTEM PARAMETERS

The **SC600 PLUS** system allows the operator to define the following parameters:
- Compressor and fan pressure differential **DiC - DiU**
- Compressor switch-on delay time **T1C**
- Fan switch-on delay time **T1U**
- Compressor switch-off delay time **T2C**
- Fan switch-off delay time **T2U**
- Pressure or °C sensor display mode **UM**
- Type of freon loaded in the circuit **Fty**
- High and low pressure calibration **CA1 - CA2**
- Number of compressors to be managed **nC**
- Number of fans to be controlled **nU**
- Fan pressure sensor enable **SeU**
- Type of activation (Without rotation / With rotation) **Seq.**
- Counting of working hours of each compressor for maintenance warning **Hr1-2-3-4** and **MAn**
- Type of compressor separation with solenoid N.O. or N.C. **nPC-tUP**
- Minimum compressor pause time **ono**
- Delay time at start of first compressor ron (only with **Seq** = 1)
- Logic configuration of digital inputs N.O. or N.C. **Cdi**
- High and low pressure set point min-max limits **Lic-LSc-LiU-LSU**
- Configuration of low pressure sensor **Sbi-SbF**
- Digital input n°6 trip mode **niP-rLo**

PROGRAMMING AND DISPLAY OF PRESSURE SETPOINT 5.7

During display of high and low pressure:

1. Push the **SET COMPRESSOR key** to display the current **SETPOINT**.
2. Push the **SET COMPRESSOR key** and press one of the (▲) or (▼) keys to modify the **SETPOINT** for activing the compressors.
3. Release the **SET COMPRESSOR** key to return to the high and low pressure display; modifications will be saved automatically.

To adjust the fan switch-on set points repeat the above three procedures using the **SET FANS** key instead of the **SET COMPRESSORS** key.

FIRST PROGRAMMING LEVEL (User) 5.8

To access the first programming level proceed as follows:

1. Press the (▲) and (▼) keys simultaneously and keep them pressed for a few seconds until the first programming variable appears on the display.
2. Release the (▲) and (▼) keys.
3. Select the variable to be modified using the (▲) or (▼) key.
4. When the variable has been selected it is possible:
   • To display its setting by pressing SET
   • To modify its setting by pressing the SET key and the (▲) or (▼) buttons.
   When configuration values have been set you can exit the menu by pressing (▲) and (▼) simultaneously for a few seconds until the pressure value appears.
5. The modifications are saved automatically when you exit the configuration menu.

If point 4 is not executed, the unit automatically exits the setting menu after a few minutes.

5.9 LIST OF FIRST LEVEL VARIABLES (User)

LABEL	MEANING	VALUES	DEFAULT
diC	**Compressor SET** (pressure) **differential**	0.2 ÷ 1 bar (scale -0.5 ÷ 7 bar)	0.4
t1C	**Compressor switch-on delay time** (SECONDS)	1 ÷ 240	10
t2C	**Compressor switch-off delay time** (SECONDS)	1 ÷ 240	10
diU	**Fan SET** (pressure) **differential**	0.5 ÷ 2,4 bar (scale 0 ÷ 30 bar)	2
t1U	**Fan switch-on delay time** (SECONDS)	1 ÷ 240	10
t2U	**Fan switch-off delay time** (SECONDS)	1 ÷ 240	10
UM	**Unit of measure of display and adjustment**	0 = bar 1 = °C 2 = °F	0
Fty	**Selection of type of freon used in the system**	1 = 507A 2 = R404A 3 = R410A 4 = R407C 5 = R22	1
CA1	**Calibration of intake sensor** (low) bar	-9,9...9,9	0,0
CA2	**Calibration of delivery sensor** (high) bar	-9,9...9,9	0,0
dMY	**Date**	dd...mm...yy	
HMS	**Time**	0:00..23:59	

5.10 SECOND PROGRAMMING LEVEL (Installer)

To access the second programming level press the UP (▲) and DOWN (▼) keys and the LIGHT key simultaneously for a few seconds.
When the first programming variable appears the system automatically goes to stand-by.
At the exit of programming, to reactivate the system it is necessary to press the Stand-by button on the Console.

1. Select the variable to be modified by pressing the UP (▲) and DOWN (▼) keys.
   When the parameter has been selected it is possible:
2. To modify the parameter setting by pressing the SET key and pressing the (▲) or (▼) key.
3. When setting has been completed you can exit the menu by pressing the (▲) and (▼) keys simultaneously and keeping them pressed until the pressure value reappears.
4. Modifications are saved automatically when you exit the configuration menu.

LIST OF SECOND LEVEL VARIABLES (Installer) 5.11

LABEL	MEANING	VALUES	DEFAULT
NC	Select number of compressors to be controlled	1...4	4
NU	Select number of fans to be controlled	1...4	4
SEU	Pressure sensor (high) enable for fan	0= disabled sensor 1= enabled sensor	0
SEq	Compressor activation logic mode	0= with rotation 1= without rotation	0
Ad	Network address for connection to TeleWIN PRO supervision system	0 ÷ 31	0
Hr1	Compressor 1 hour counter (resettable)*	0 ÷ 999 tens of hours	0
Hr2	Compressor 2 hour counter (resettable)*	0 ÷ 999 tens of hours	0
Hr3	Compressor 3 hour counter (resettable)*	0 ÷ 999 tens of hours	0
Hr4	Compressor 4 hour counter (resettable)*	0 ÷ 999 tens of hours	0
NPC	Separations for compressor	0= not separated 1= separ. at 50%	0
TUP	Type of separation valve	0= N.C. 1= N.A.	0
Ono	Min compressor switch-off time (sec.)	0:00:02 ÷ 0:08:30 step 2	0:05:00
Ron	Delay time (sec.) which must elapse on exit from neutral zone for start of first compressor (only with **Seq = 1**)	0:00:02 ÷ 0:08:30 step 2	0:05:00
Man	Max number **(hrs x 10)** of working hrs of a compressor: when this time has elapsed a maintenance request is issued (if = 0 no maintenance request issued)	2...510 step 2	300
Cdi	Digital inputs configuration	0 = input open function O.K 1 = input closed function O.K.	0
Lic	Lower limit able to be set by compressor user (bar)	-0,5…**LSc**	0,2
LSc	Upper limit able to be set by compressor user (bar)	**Lic**...10	5,0
LiU	Lower limit able to be set by fan user (bar)	0,0...**LSU**	10.0
LSU	Upper limit able to be set by fan user (bar)	**LiU**...30	25.0
Sbi	Pressure (bar) corresponding to 4mA. Refers to base sensor.	-0,5...**SbF**	-0,5
SbF	Pressure (bar) corresponding to 20mA. Refers to base sensor.	**Sbi**...10	7,0
NiP	Time (hrs) in which central alarm digital input in manual (9-13) can trip 5 times. When tripped for the 5th time the alarm stays on.	1...240	6
RLo	Freon /oil level pre-alarm - alarm transit time (min). After this time all outputs are deactivated (if =0 alarm is not enabled)	0:00:00...4:00:00	0:30:00

(*): Compressor operation times are reset by displaying the desired hour counter (Hr1, Hr2, ecc.) and pressing the two SET keys (compressors and fans) simultaneously for at least 10 seconds. When this time has elapsed a beep confirms that the task has been completed.

CHAPTER 6: DESCRIPTION OF OPERATION

6.1 OPERATION

The **SC 600 PLUS** system manages 4 compressors and 4 fans, or 3 compressors each with a separation and 3 fans, according to the parameter settings made during programming. Fans can be disabled.

If the "Without rotation" function is enabled the **SC 600 PLUS** system operates as follows:
- Compressor (fan) *activation ramping* follows compressor sequence 1, 2, 3 and 4;
- Compressor (fan) *deactivation ramping* follows compressor sequence 4, 3, 2, and 1.

If the "With rotation" function is enabled :
- *Activation ramping* begins with activation of the compressor with the shortest working time and so on until the compressor with the longest working time is activated.
- *Deactivation ramping* begins with deactivation of the compressor with the longest working time and so on until the compressor with the shortest working time is activated.

6.2 COMPRESSOR ACTIVATION/DEACTIVATION PARAMETERS

The **SC 600 PLUS** system activates compressor start when the pressure measured by the "low" sensor exceeds **Pa= SET + diC** (SET and dIC are values established during programming) and deactivates the compressor when pressure drops below **Pa = SET – diC**.

6.3 FAN ACTIVATION/DEACTIVATION PARAMETERS

The **SC 600 PLUS** system activates fan start when the pressure exceeds **Pa= SET + diU** (SET and dIU are values established during programming) and deactivates the fan when pressure drops below **Pa = SET – diU**.

6.4 OPERATION "WITHOUT ROTATION"

Each activation request is followed by a fixed 10-second delay (indicated by the flashing LED of the first compressor), activation of compressor 1, then compressor 2 and so on with compressors 3 and 4.
When deactivated, the compressors are switched off according to the sequence 4, 3, 2 and 1. If, of course, the activation/deactivation limits are reached compressor activation/deactivation ramping will be interrupted.
During switch-on ramping, activation of a compressor and the following one is delayed by **switch-on time T1C**.
During switch-off ramping, deactivation of a compressor and the following one is delayed by **switch-off time T2C**.
Fans always operate without rotation.
During switch-on ramping, activation of a fan and the following one is delayed by **switch-on time T1U**.
During switch-off ramping, deactivation of a fan and the following one is delayed by **switch-off time T2U**.

OPERATION "WITH ROTATION" 6.5

Each activation request is followed by a fixed 10-second delay (indicated by the flashing LED of the corresponding compressor) and then activation of the compressor with the shortest working time; subsequently, compressors with working times longer than that of the previous one are switched on.
When deactivation conditions are reached (by pressure) the compressor with the longest working time is switched off; subsequently, compressors with working times shorter than that of the previous one are switched off in sequence.
If, of course, the activation/deactivation limits are reached compressor activation/deactivation ramping will be interrupted.
During switch-on ramping, activation of a compressor and the following one is delayed by **switch-on time T1C**.
During switch-off ramping, deactivation of a compressor and the following one is delayed by **switch-off time T2C**.

EXPANDABILITY OF THE SC 600 PLUS SYSTEM 6.6

The SC600 PLUS system can be connected to the TeleWIN software package which can, via Personal Computer, be used to monitor and record sensor-detected pressures. To connect the SC600 PLUS to TeleWIN just proceed as follows:
- Connect the two power board terminals to terminals 3 and 4 respectively on the RS-485 interface (see wiring diagram).
- Assign the address to the SC600 PLUS STEP CONTROLLER by entering the second configuration level, selecting label **Ad** and following the standard address assignment criteria used for the TeleWIN system. Make sure you do not use addresses already used by other devices connected to the TeleWIN network.

CHAPTER 7: DIAGNOSTICS

ALARMS MANAGEMENT 7.1

In the event of a fault the ECP 600 PLUS system warns the operator by displaying an alarm code and emitting a warning sound via the buzzer inside the control console.
If alarm conditions arise, the display will show one of the following messages:

ALARM CODE	PROBABLE CAUSE	SOLUTION
E0	Faulty low pressure sensor (compressor outputs deactivated).	• Check the sensor is working properly. • If the problem persists contact the technical assistance service.

ALARM CODE	PROBABLE CAUSE	SOLUTION
E1	Faulty high pressure sensor.	• Check the sensor is working properly. • If the problem persists contact the technical assistance service.
E3	EEPROM ALARM An error in the EEPROM memory has been detected (all outputs except alarm output are deactivated).	• Switch the unit off and back on. • If the problem persists replace the Master board.
E4	Master/slave software incompatibility error.	• Contact the technical assistance service.
E5	One or more compressors has reached the number of working hours at which maintenance is required.	• Carry out maintenance tasks on the relative components.
E6	Clock battery flat.	• Change battery.
E7	Unit in manual pre-alarm.	• Check parameter configuration. • If the problem persists contact the technical assistance service.
E8	Unit in manual alarm. Comes on after tripped 5 times within Nip time of relative digital input (9-13).	• Check parameter configuration. • If the problem persists contact the technical assistance service.
EC	Overload device on one or more compressors (e.g. overheat or max pressure switch). Output of relative compressor deactivated.	• Check the compressor(s) is/are working properly. • Check for proper compressor(s) absorption. • If the problem persists contact the technical assistance service.
EF	Freon/oil level alarm.	• Check the device connected to the system (see general alarm terminals), which signalled alarm.
EH	General high pressure switch tripped (compressor outputs deactivated).	• Check the refrigeration circuit. • If the problem persists contact the technical assistance service.
EL	General low pressure switch tripped (all outputs deactivated).	• Check the refrigeration circuit. • If the problem persists contact the technical assistance service.
EN	No contact between SC 600 Operating Console Plus and Master board.	• Check for proper connection between the units. • If the problem persists contact the technical assistance service.
EP	Freon/oil level pre-alarm.	• Check the lubrication device, which signalled the alarm condition.
Ev	One or more fan safety devices tripped (e.g. overheat or klicsson). No output deactivated.	• Check that fan(s) is/are working properly. • Check for proper fan absorption. • If the problem persists contact the technical assistance service.

ALARMS DATABASE 7.2

The SC 600 PLUS system can save up to 40 alarm events. To display the recorded alarm codes press the ALARM MUTE key for at least 2.5 seconds.
Sector n. 22 of the LCD display (see section 5.2) shows the dominant (highest priority) error code at the time of saving. Sector n. 23 indicates the data saving date (if alarm refers to current day the time is shown). If one or more compressor alarms were on at the moment of saving the compressor-related display segments will flash.
To reset the database press compressors SET and fans SET simultaneously for 10 seconds when data is displayed; when this time has elapsed the instrument will beep and cancel the data display. If no alarm events have been recorded the system will be unable to enter display mode. To exit the saved alarms display mode press ALARM MUTE for at least 2.5 seconds. if no keys are pressed for one minute the system exits data display mode automatically.

TROUBLESHOOTING 7.3

PROBLEM	PROBABLE CAUSES	SOLUTION
The control console does not respond and the display is off	• Master board power supply not connected. • Incorrect connection between the SC 600 Plus control console and Master board.	• * Check that power reaches the Master board terminals. • Check connections between the SC 600 Plus control console and the Master board. • If the problem persists contact the technical assistance service.
The control console does not respond and the display shows code **E□**	• Incorrect connection between the SC 600 Plus control console and the Master board. • Connection between the SC 600 Plus control console and Master board interrupted.	• * Check for continuity of connection.
The SC 600 PLUS system signals false alarms.	• Sensor connected incorrectly or faulty. • Compressor protection device (1...4) connected improperly.	• Check all connections. • Check for continuity of connection wiring to the Master board. • If the problem persists contact the technical assistance service.
The SC 600 PLUS system does not respond to the parameters set in the configuration.	• Incorrect parameter settings.	• Check system configuration settings.

ALLEGATI / APPENDICES

A.1 DICHIARAZIONE DI CONFORMITA' CE / CE DECLARATION OF CONFORMITY

COSTRUTTORE □MANUFACTURER

PEGO SRL Via Piacentina,6b - 45030 Occhiobello (RO) - ITALY -

DENOMINA□IONE DEL PRODOTTO □*NAME OF PRODUCT*

MOD.: **PLUS SC 6□□S□□□C□□□□□□□□□**

IL PRODOTTO E□CONFORME ALLE SE□UENTI DIRETTI□E CE □ ***THE PRODUCT CONFORMS THE REQUIREMENTS OF THE FOLLOWING EUROPEAN DIRECTIVES*□**

73□□3 CEE Direttiva del Consiglio per l'unificazione delle normative dei Paesi CEE relativa al materiale elettrico destinato ad essere utilizzato entro certi limiti di tensione e successive modificazioni

73/23 EEC *Council Directive on the aunification of the laws of the Member States relating to electrical equipment employed within certain voltage limits and subsequent amendments.*

8□336 CEE Direttiva del Consiglio per l'unificazione delle normative dei Paesi CEE relativa alla compatibilità elettromagnetica e successive modificazioni

89/336 EEC *Council Directive on the unification of the laws of the Member States relating to electro-magnetic compatibility and subsequent amendments.*

□368 CEE Direttiva del consiglio per la marcatura CE del materiale elettrico destinato ad essere utilizzato entro talunni limiti di tensione.

93/68 CEE *Council Directive on the "CE" marking of electrical material designed to be used within such voltage limits.*

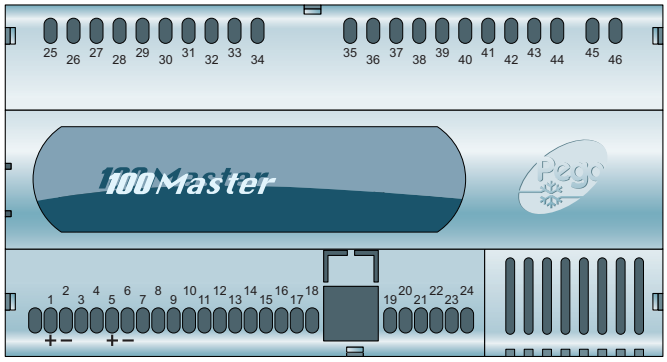
LA CONFORMITA□PRESCRITTA DALLE DIRETTI□E E□□ARANTITA DALL□ADEMPIMENTO A TUTTI □LI EFFETTI DELLE SE□UENTI NORME□ ***CONFORMITY WITH THE REQUIREMENTS OF THIS DIRECTIVE IS TESTIFIED BY COMPLETE ADHRENCE TO THE FOLLOWING STANDARDS:***

NORME ARMONI□□ATE / *HARMONIZED EUROPEAN STANDARDS*

EN 5□□81□1 EN 5□□8□□1 EN 6□335 □1

SCHEMA DI CONNESSIONE SCHEDA MASTER
MASTER CARD TERMINAL BLOCK

A.2



Sezione alimentazione / Power supply section
45 - **46**: Alimentazione 230 Vac 50 Hz / Power supply 230 V AC, 50 Hz

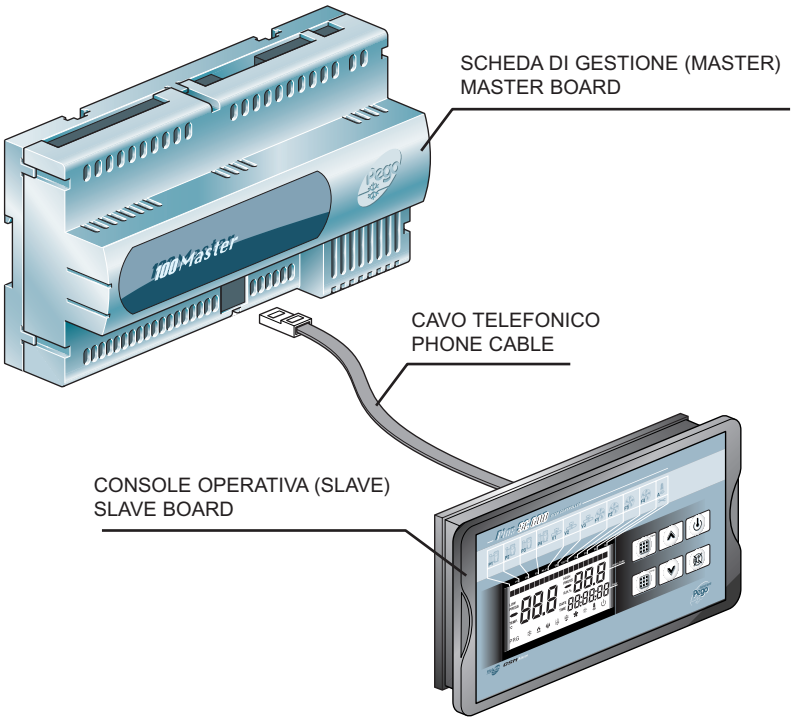
Sezione ingressi / Inputs section
1 - **2**: Sonda alta pressione / High pressure sensor
5 - **6**: Sonda bassa pressione / Low pressure sensor
9 - **10**: Allarme livello freon / Freon level alarm
9 - **11**: Allarme bassa pressione generale / General low pressure alarm
9 - **12**: Allarme alta pressione generale / General high pressure alarm
9 - **13**: Allarme centrale in manuale / Unit in manual alarm
9 - **14**: Allarme ventilatore condensatore / Condenser fan alarm
9 - **15**: Allarme compressore 4 / Compressor 4 alarm
9 - **16**: Allarme compressore 3 / Compressor 3 alarm
9 - **17**: Allarme compressore 2 / Compressor 2 alarm
9 - **18**: Allarme compressore 1 / Compressor 1 alarm

Terminal 9 is shared by all digital inputs.

Sezione uscite (contatti privi di tensione) / Outputs section (unpowered contacts)
25 - **26**: Allarme / Alarm
27 - **28**: Ventilatore condensatore / Condenser fan
29 - **30**: Ventilatore condensatore / Condenser fan
31 - **32**: Ventilatore condensatore / Condenser fan
33 - **34**: Solenoide parzializzazione compressore 3 o ventilatore condensatore 1
Compressor separation solenoid 3 or condenser fan 1
35 - **36**: Solenoide parzializzazione compressore 2
Compressor separation solenoid 2
37 - **38**: Compressore 4 o solenoide parzializzazione compressore 1
Compressor 4 or compressor separation solenoid 1
39 - **40**: Compressore 3 / Compressor 3
41 - **42**: Compressore 2 / Compressor 2
43 - **44**: Compressore 1 / Compressor 1

Sezione TeleWIN / TeleWIN section
19: Al morsetto 4 dell'interfaccia RS485 per TeleWIN / To terminal 4 of RS485 interface for TeleWIN
20: Al morsetto 3 dell'interfaccia RS485 per TeleWIN / To terminal 3 of RS485 interface for TeleWIN

A.3 COLLEGAMENTO TRA CONSOLE PLUS SC 600 E SCHEDA MASTER
CONNECTION BETWEEN PLUS SC 600 CONSOLE AND MASTER BOARD



NOTE / NOTES

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